

SERV.11003

METRO WATSON

FA-3670

FA-3672

FA-5113

FA-5465

FA 5115

The block diagram illustrates the architecture of the STV 5346 FASTEXT receiver. Key components and their interconnections include:

- Power Supply (SMPS TDA 4605):** Converts 220VAC to multiple DC voltages: 115V, 33V, 12V, 16V, 5V, and 8V.
- SCART Interface:** Provides inputs for AOUT, AIN, VOUT, VIN, and RGB IN.
- 1XT Processor SAA 5254:** Manages temperature (I²C) and is associated with STV 5346 and CIV 972.
- Video Processor (TDA 8362):** A PAL/SECAM decoder and FM demodulator. It receives IF signals from the tuner and outputs R, G, and B signals to the video amp.
- Tuner (LA 7910):** Includes a band switch (U, V1, V3) and outputs IF signals. It also handles FM and AM signals.
- Filters:** VIF SAW and SIF SAW (TDA 9830) are used for frequency selection.
- Delay Line (TDA 4405):** Processes the video signal before it reaches the video amp.
- SECAM (TDA 8305):** A dedicated SECAM decoder block.
- Video Amp (TDA 6103Q):** Amplifies the video signal for output to the CRT.
- Ver. Drive (TDA 3653B):** Drives the vertical deflection coil of the CRT.
- Hor. Drive:** Includes a transistor driver and a horizontal sync generator (TDA 7056A) for the CRT.
- FB1 (TDA 7056A):** A horizontal sync generator.
- 19V 25W Heater:** A power supply for the heater.
- Control System:** Includes a CPU (CTV 322), EPROM (PCF 8582), and a T.M. (Teletext Memory) block. The CPU is connected to the video processor and the 1XT processor via I²C and I/O lines.
- Other Components:** A PNE AMP (Pre-Noise Amplifier) and a T.M. (Teletext Memory) block are also shown.

The diagram illustrates a complex video receiver circuit. At the top, two input processors (2.SCART and 1.SCART) handle external video signals, which are then multiplexed by a 74HC4053. These signals, along with those from a tuner (LA 7910) and a CPU (CTV 352S), are fed into a central video processor (TDA 8362). The video processor manages PAL/NTSC decoding and FM demodulation. Its outputs are distributed to a video amplifier (TDA 61030), a video driver (TDA 3653B), and a horizontal driver (FBT 10000). A text processor (SAA5254) and a color control processor (TDA 4665) also interface with the video processor. The audio path involves a stereo processor (TDA 8425) and an audio amplifier (TDA 7057AQ). The entire system is powered by a 270VAC input through a power supply (SMPS TDA 4605) and a CPU (CTV 352S) that manages various control signals and I/Os.

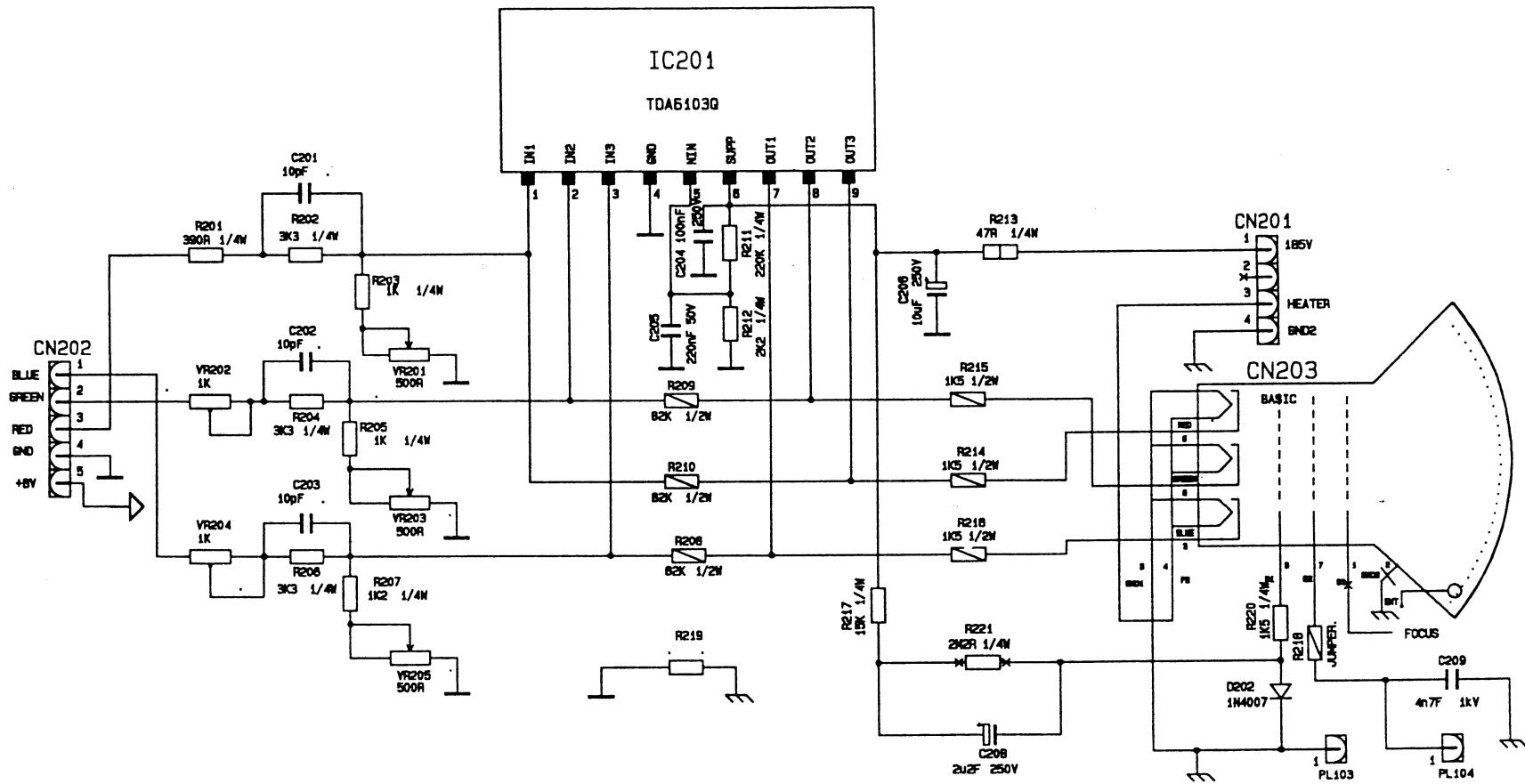
Key components and their functions include:

- Input Processors:** 2.SCART and 1.SCART for external video inputs.
- Multiplexer:** 74HC4053 for routing video signals.
- Audio Path:** Stereo processor (TDA 8425) and audio amplifier (TDA 7057AQ).
- Video Path:** Video processor (TDA 8362), video amplifier (TDA 61030), video driver (TDA 3653B), and horizontal driver (FBT 10000).
- Control and Tuning:** Tuner (LA 7910), CPU (CTV 352S), and EEPROM (PCF 8582).
- Power Supply:** SMPS (TDA 4605) converting 270VAC to various DC voltages.

Additional components shown include a color control processor (TDA 4665), a color control processor (TDA 8395), and a text processor (SAA5254).

Legend:

- * SAA7283 FOR NICAM
- TDA9840 FOR GERMAN STEREO
- # TDA3845 FOR NICAM RG1
- TDA3403 FOR NICAM
- TRA1261 FOR GERMAN STEREO

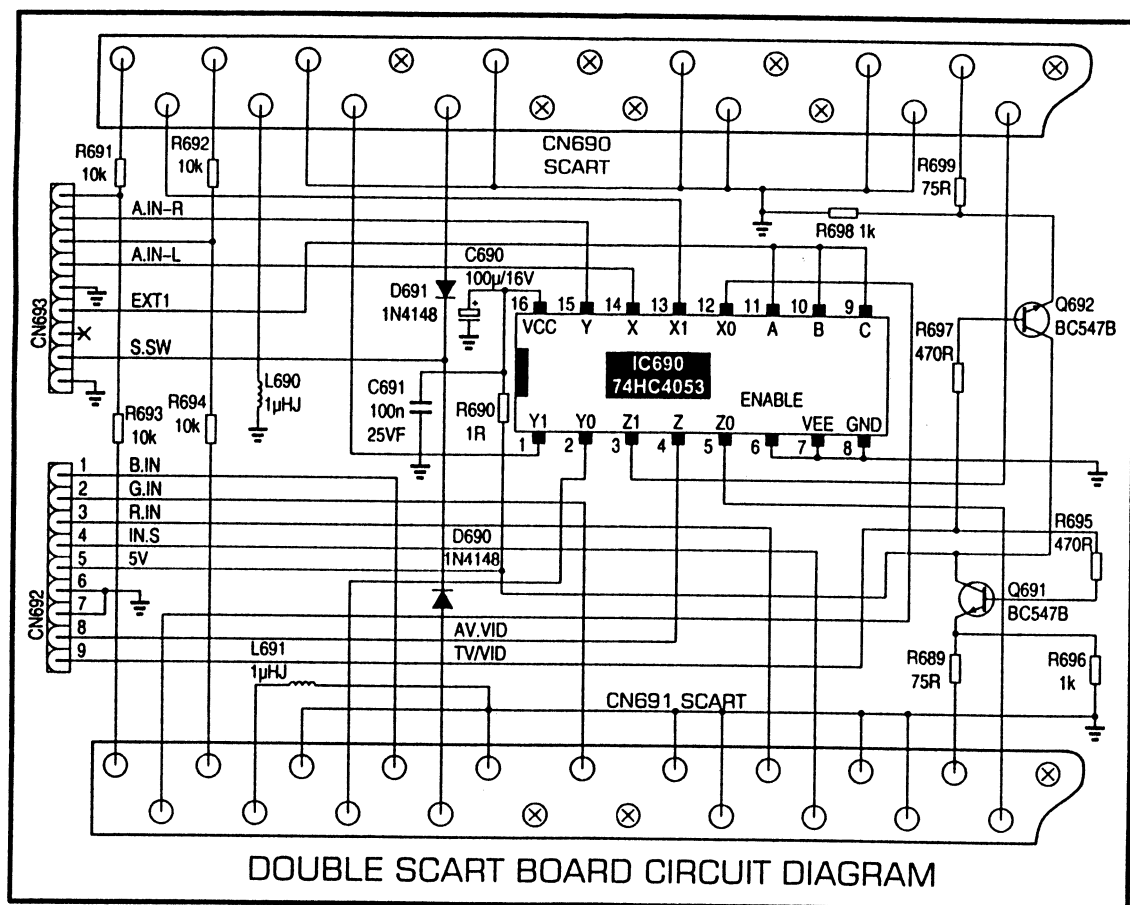
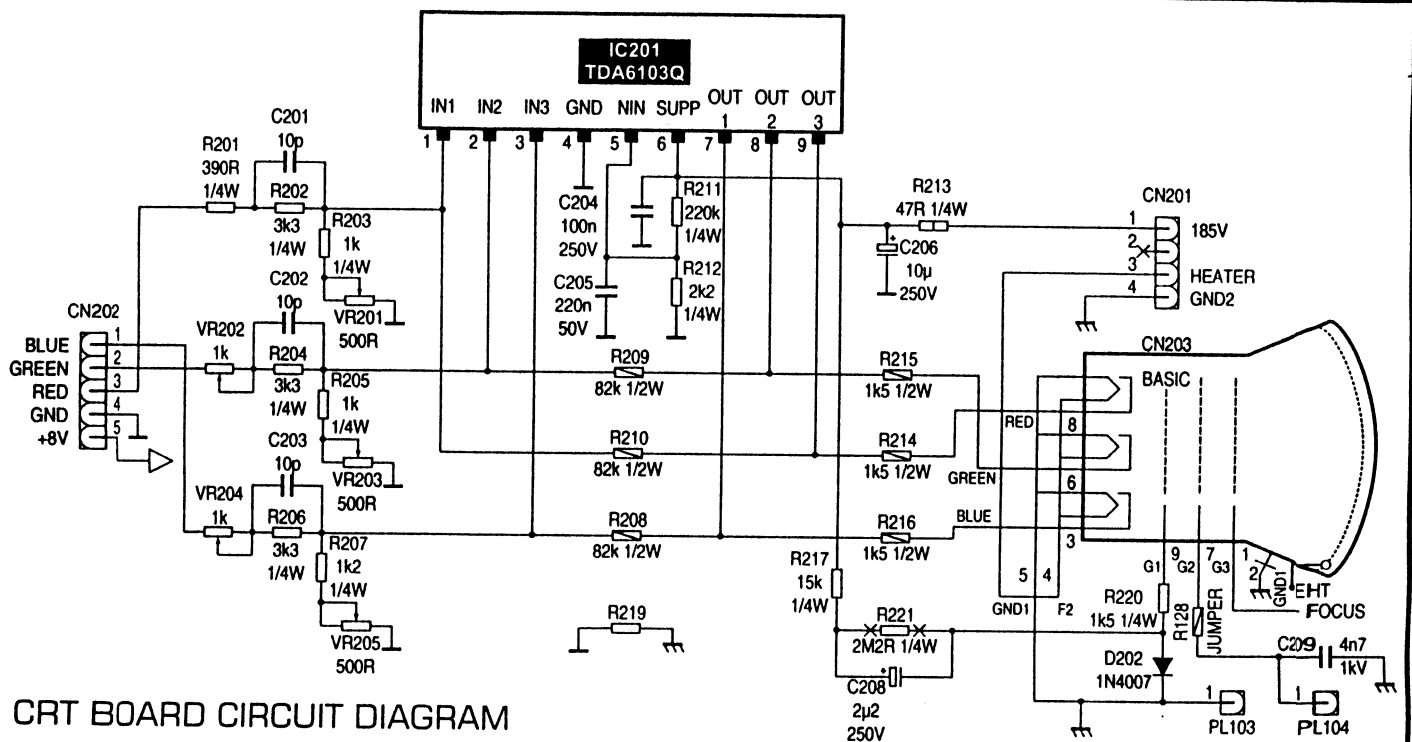


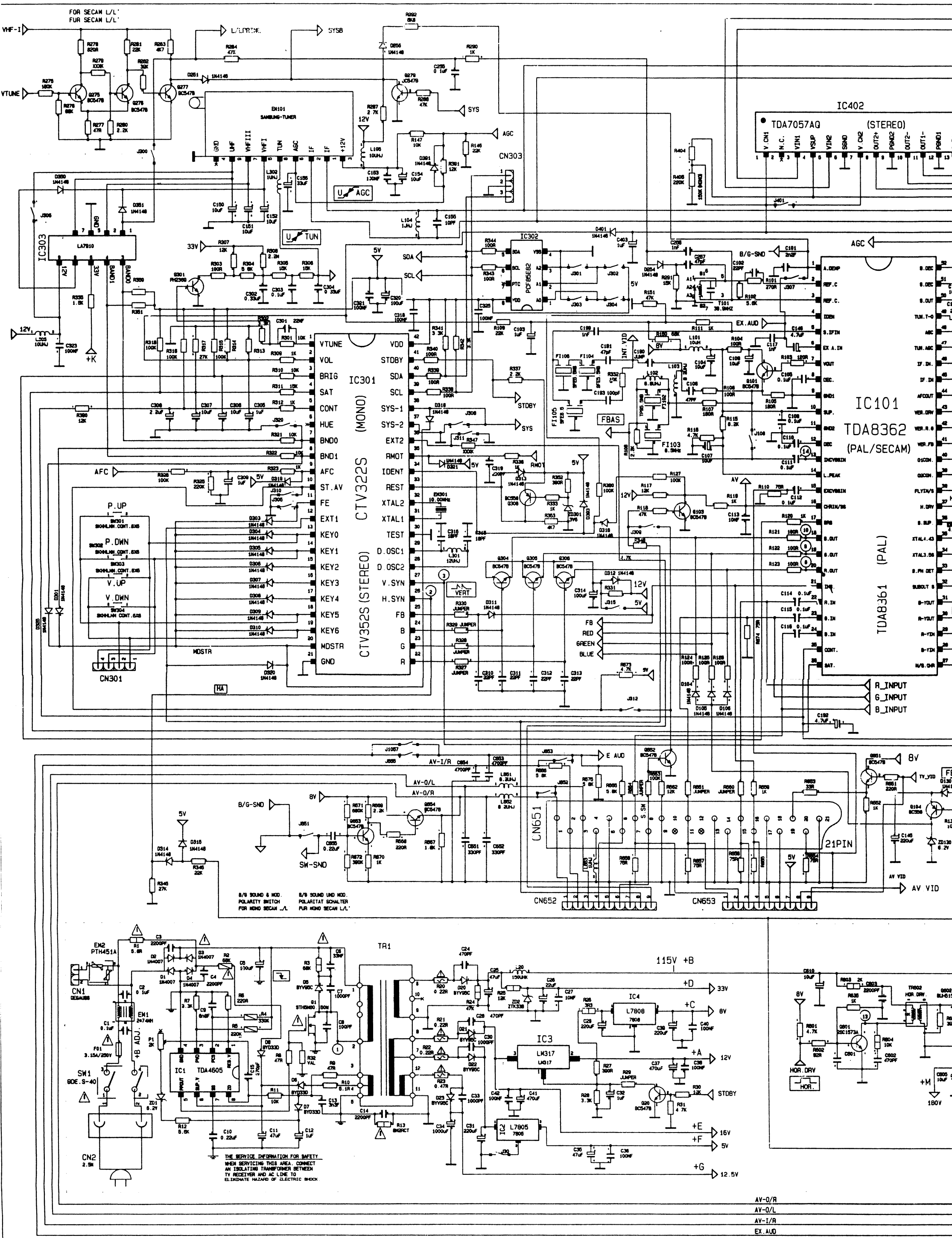
CRT BOARD CIRCUIT DIAGRAM / CRT BAUSTEIN SCHALTUNGSPLAN

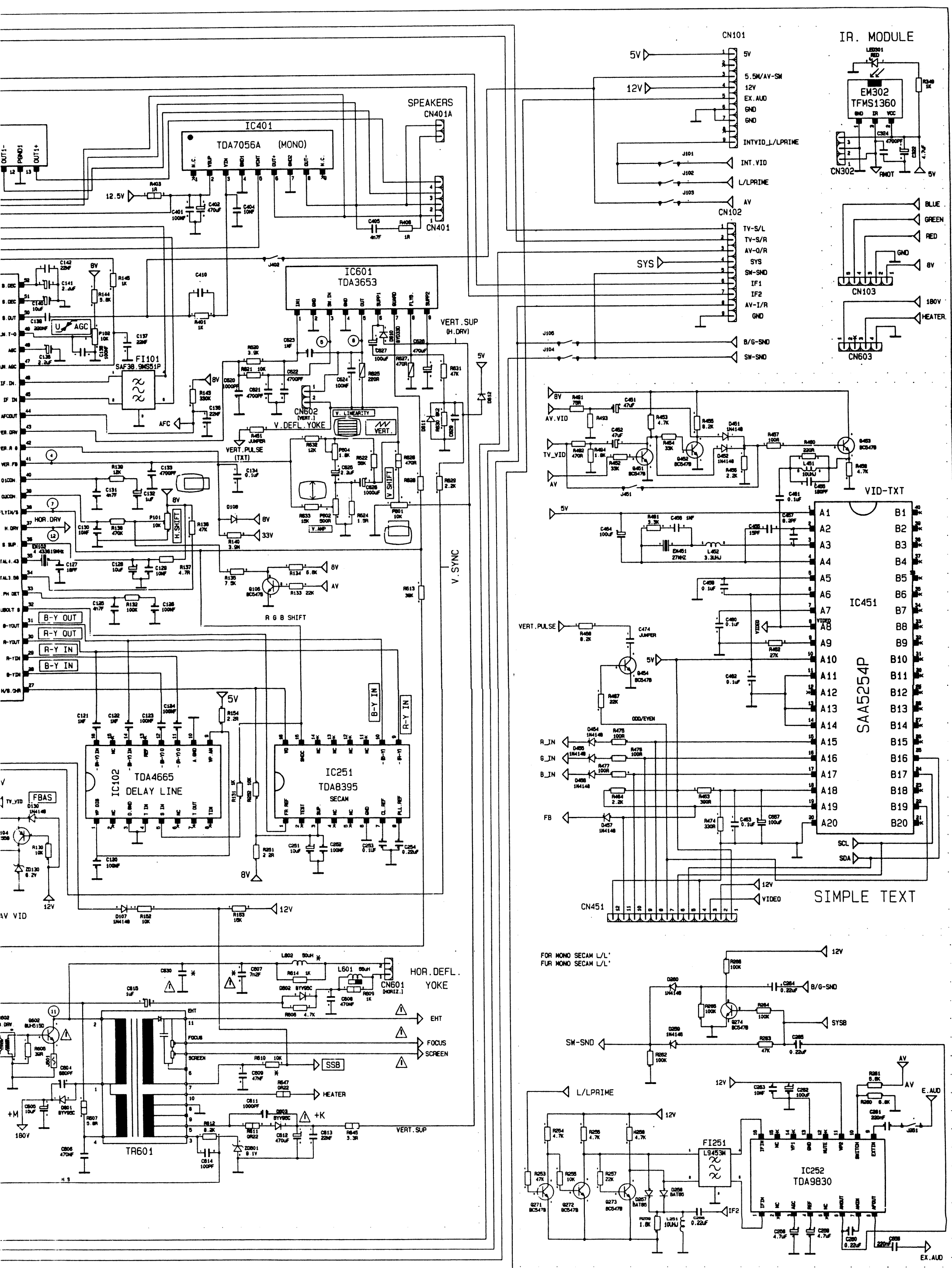
NICAM BOARD CIRCUIT DIAGRAM

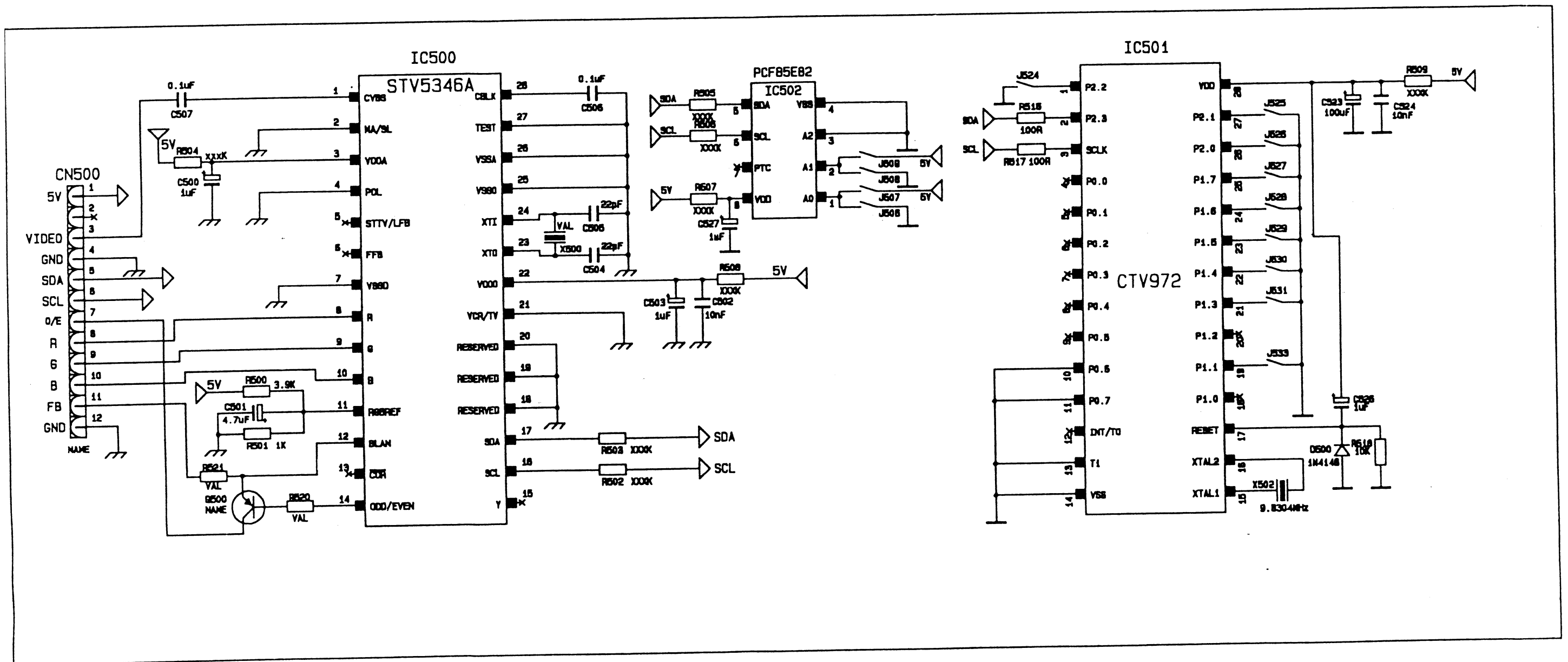
This circuit diagram illustrates the components and connections of a NICAM board. The board features three integrated circuits: IC902 (TDA8425), IC800 (SAA7283), and IC801 (TDA3825). IC902 is connected to various input and output pins, including IN2 L, VCAP, IN2 R, VCC, AGND, BASS L, BASS R, TREBLE L, TREBLE R, OUT L, OUT R, SCL, SDA, and DGND. IC800 is connected to pins 1 through 26, including 52, 51, 50, 49, 48, 47, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, and 26. IC801 is connected to pins 9, 10, 11, 12, 13, 14, 15, and 16, including 9, 8, 7, 6, 5, 4, 3, 2, 1, and 16. The diagram also shows various passive components such as resistors (R800, R804, R805, R806, R807, R808, R809, R810, R811, R812, R813, R814, R815, R816, R817, R818, R819, R820, R821, R822, R823, R824, R825, R826, R827, R828, R829, R830, R831, R832, R833, R834, R835, R836, R837, R838, R839, R840, R841, R842, R843, R844, R845, R846, R847, R848, R849, R850, R851, R852, R853, R854, R855, R856, R857, R858, R859, R860, R861, R862, R863, R864, R865, R866, R867, R868, R869, R870, R871, R872, R873, R874, R875, R876, R877, R878, R879, R880, R881, R882, R883, R884, R885, R886, R887, R888, R889, R890, R891, R892, R893, R894, R895, R896, R897, R898, R899, R900, R901, R902, R903, R904, R905, R906, R907, R908, R909, R910, R911, R912, R913, R914, R915, R916, R917, R918, R919, R920, R921, R922, R923, R924, R925, R926, R927, R928, R929, R930, R931, R932, R933, R934, R935, R936, R937, R938, R939, R940, R941, R942, R943, R944, R945, R946, R947, R948, R949, R950, R951, R952, R953, R954, R955, R956, R957, R958, R959, R960, R961, R962, R963, R964, R965, R966, R967, R968, R969, R970, R971, R972, R973, R974, R975, R976, R977, R978, R979, R980, R981, R982, R983, R984, R985, R986, R987, R988, R989, R990, R991, R992, R993, R994, R995, R996, R997, R998, R999, R1000, R1001, R1002, R1003, R1004, R1005, R1006, R1007, R1008, R1009, R1010, R1011, R1012, R1013, R1014, R1015, R1016, R1017, R1018, R1019, R1020, R1021, R1022, R1023, R1024, R1025, R1026, R1027, R1028, R1029, R1030, R1031, R1032, R1033, R1034, R1035, R1036, R1037, R1038, R1039, R1040, R1041, R1042, R1043, R1044, R1045, R1046, R1047, R1048, R1049, R1050, R1051, R1052, R1053, R1054, R1055, R1056, R1057, R1058, R1059, R1060, R1061, R1062, R1063, R1064, R1065, R1066, R1067, R1068, R1069, R1070, R1071, R1072, R1073, R1074, R1075, R1076, R1077, R1078, R1079, R1080, R1081, R1082, R1083, R1084, R1085, R1086, R1087, R1088, R1089, R1090, R1091, R1092, R1093, R1094, R1095, R1096, R1097, R1098, R1099, R1100, R1101, R1102, R1103, R1104, R1105, R1106, R1107, R1108, R1109, R1110, R1111, R1112, R1113, R1114, R1115, R1116, R1117, R1118, R1119, R1120, R1121, R1122, R1123, R1124, R1125, R1126, R1127, R1128, R1129, R1130, R1131, R1132, R1133, R1134, R1135, R1136, R1137, R1138, R1139, R1140, R1141, R1142, R1143, R1144, R1145, R1146, R1147, R1148, R1149, R1150, R1151, R1152, R1153, R1154, R1155, R1156, R1157, R1158, R1159, R1160, R1161, R1162, R1163, R1164, R1165, R1166, R1167, R1168, R1169, R1170, R1171, R1172, R1173, R1174, R1175, R1176, R1177, R1178, R1179, R1180, R1181, R1182, R1183, R1184, R1185, R1186, R1187, R1188, R1189, R1190, R1191, R1192, R1193, R1194, R1195, R1196, R1197, R1198, R1199, R1200, R1201, R1202, R1203, R1204, R1205, R1206, R1207, R1208, R1209, R1210, R1211, R1212, R1213, R1214, R1215, R1216, R1217, R1218, R1219, R1220, R1221, R1222, R1223, R1224, R1225, R1226, R1227, R1228, R1229, R1230, R1231, R1232, R1233, R1234, R1235, R1236, R1237, R1238, R1239, R1240, R1241, R1242, R1243, R1244, R1245, R1246, R1247, R1248, R1249, R1250, R1251, R1252, R1253, R1254, R1255, R1256, R1257, R1258, R1259, R1260, R1261, R1262, R1263, R1264, R1265, R1266, R1267, R1268, R1269, R1270, R1271, R1272, R1273, R1274, R1275, R1276, R1277, R1278, R1279, R1280, R1281, R1282, R1283, R1284, R1285, R1286, R1287, R1288, R1289, R1290, R1291, R1292, R1293, R1294, R1295, R1296, R1297, R1298, R1299, R1300, R1301, R1302, R1303, R1304, R1305, R1306, R1307, R1308, R1309, R1310, R1311, R1312, R1313, R1314, R1315, R1316, R1317, R1318, R1319, R1320, R1321, R1322, R1323, R1324, R1325, R1326, R1327, R1328, R1329, R1330, R1331, R1332, R1333, R1334, R1335, R1336, R1337, R1338, R1339, R1340, R1341, R1342, R1343, R1344, R1345, R1346, R1347, R1348, R1349, R1350, R1351, R1352, R1353, R1354, R1355, R1356, R1357, R1358, R1359, R1360, R1361, R1362, R1363, R1364, R1365, R1366, R1367, R1368, R1369, R1370, R1371, R1372, R1373, R1374, R1375, R1376, R1377, R1378, R1379, R1380, R1381, R1382, R1383, R1384, R1385, R1386, R1387, R1388, R1389, R1390, R1391, R1392, R1393, R1394, R1395, R1396, R1397, R1398, R1399, R1400, R1401, R1402, R1403, R1404, R1405, R1406, R1407, R1408, R1409, R1410, R1411, R1412, R1413, R1414, R1415, R1416, R1417, R1418, R1419, R1420, R1421, R1422, R1423, R1424, R1425, R1426, R1427, R1428, R1429, R1430, R1431, R1432, R1433, R1434, R1435, R1436, R1437, R1438, R1439, R1440, R1441, R1442, R1443, R1444, R1445, R1446, R1447, R1448, R1449, R1450, R1451, R1452, R1453, R1454, R1455, R1456, R1457, R145

COMPONENT	C607	R647	L602	C608	R153
CRT					
20" SAMSUNG	8.2nF	0.1R	JUMPER	470nF	15k
A48ECR 11X60	1600V	1W		200V	1/6W
20" SAMSUNG	8.2nF	0.1R	JUMPER	470nF	15k
A48ECR 11X60	1600V	1W		200V	1/6W
21" SAMSUNG	7.8nF	0.1R	56μH	470nF	15k
A51EER 11X38	1600V	1W		200V	1/6W
20" POLCOLOR	7.8nF	0.1R	110μH	470nF	15k
A48EEV 13X01	1600V	1W		200V	1/6W
21" POLCOLOR	6.8nF	0.1R	110μH	470nF	15k
A51EEV 13X01	1600V	1W		200V	1/6W
20" VIDEOCOLOR	7.8nF	0.1R	110μH	470nF	15k
A48EBV 13X01	1600V	1W		200V	1/6W
21" VIDEOCOLOR	6.8nF	0.1R	56μH	470nF	15k
A51EBV 13X09	1600V	1W		200V	1/6W

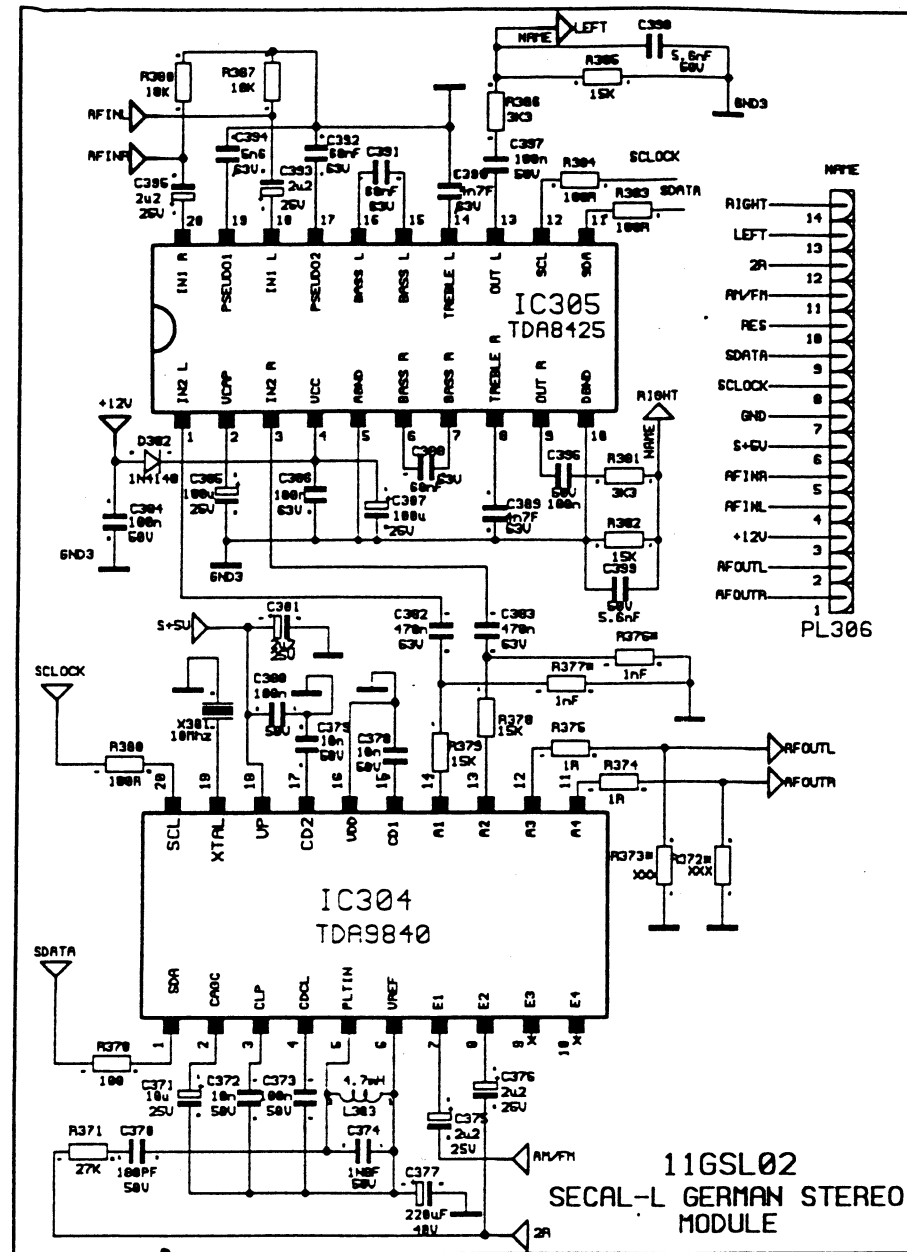




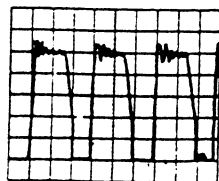




FASTEXT BOARD CIRCUIT DIAGRAM / FASTEXT BAUSTEIN SCHALTUNGSPLAN

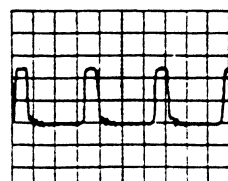


1) 5 usn/div 100 volt/div



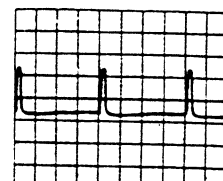
Drain of Q1

2) 20 usn/div 2volt/div



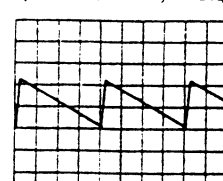
IC 301 pin 26

3) 5m sn/div 2volt/div



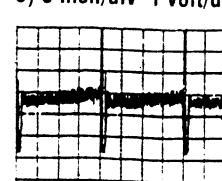
IC 301 pin 27

4) 5 msn/div 0,5 volt/div



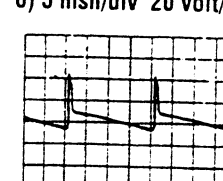
IC 101 pin 41

5) 5 msn/div 1 volt/div



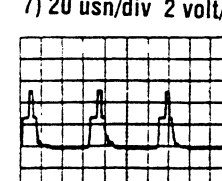
IC 601 pin 3

6) 5 msn/div 20 volt/div



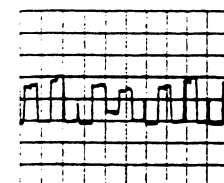
IC 601 pin 5

7) 20 usn/div 2 volt/div



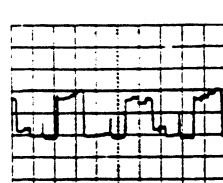
IC 101 pin 38

8) 20 usn/div 2 volt/div



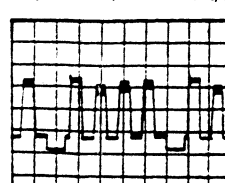
IC 101 pin 20

9) 20 usn/div 2 volt/div



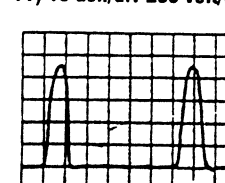
IC 101 pin 19

10) 10 usn/div 2 volt/div



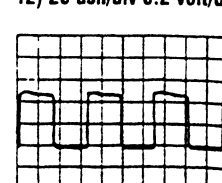
IC 101 pin 18

11) 10 usn/div 250 volt/div



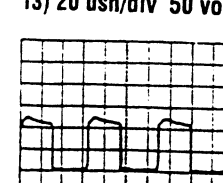
Collector of Q602

12) 20 usn/div 0.2 volt/div



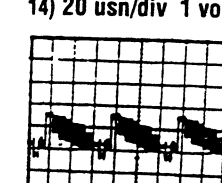
IC 101 pin 37

13) 20 usn/div 50 volt/div



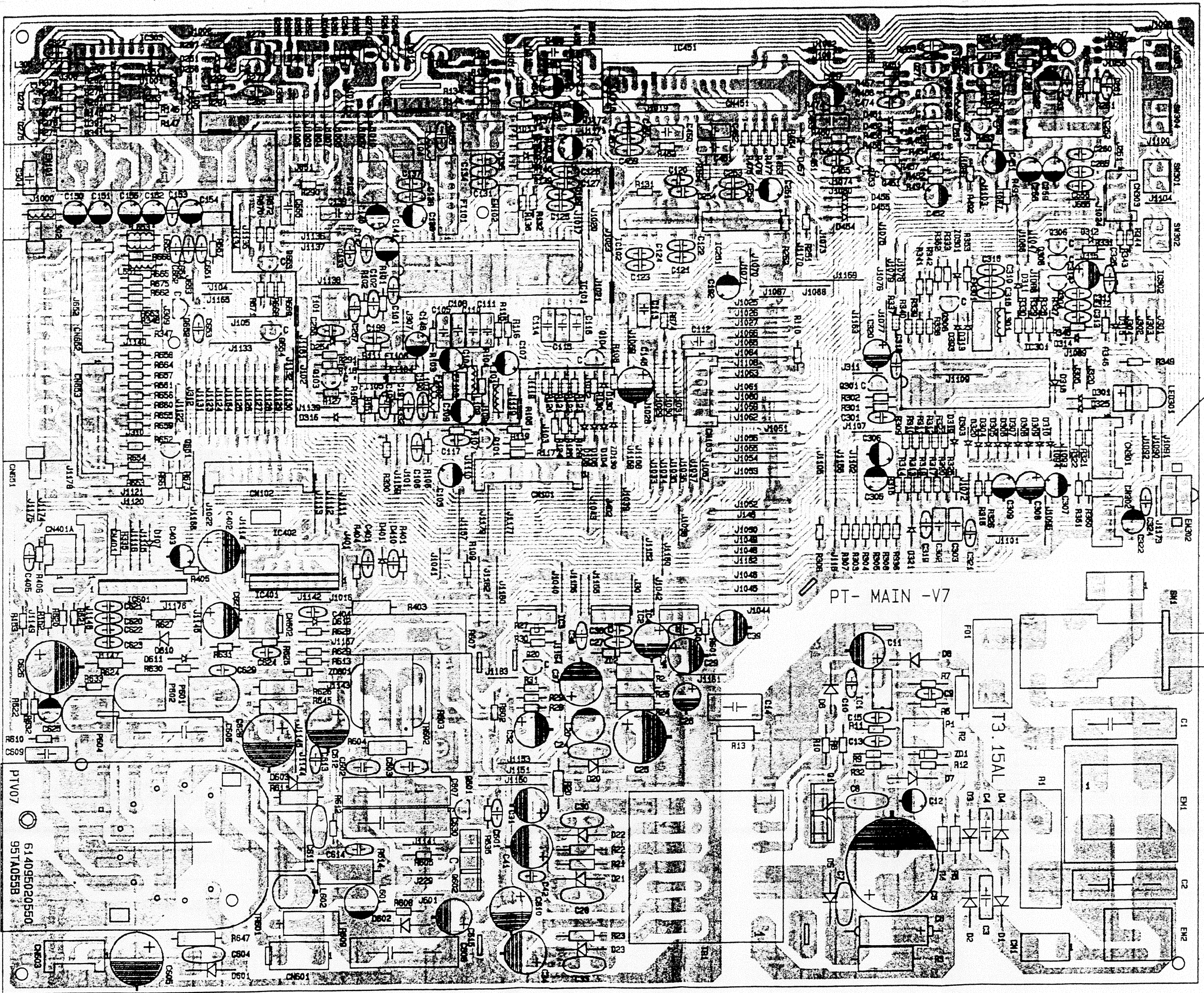
Collector of Q601

14) 20 usn/div 1 volt/div

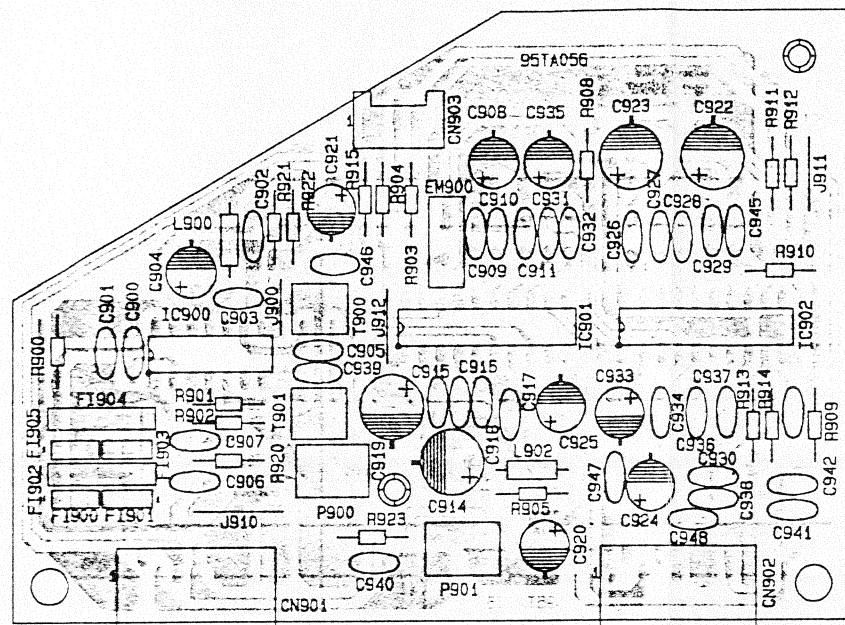


IC 101 pin 13

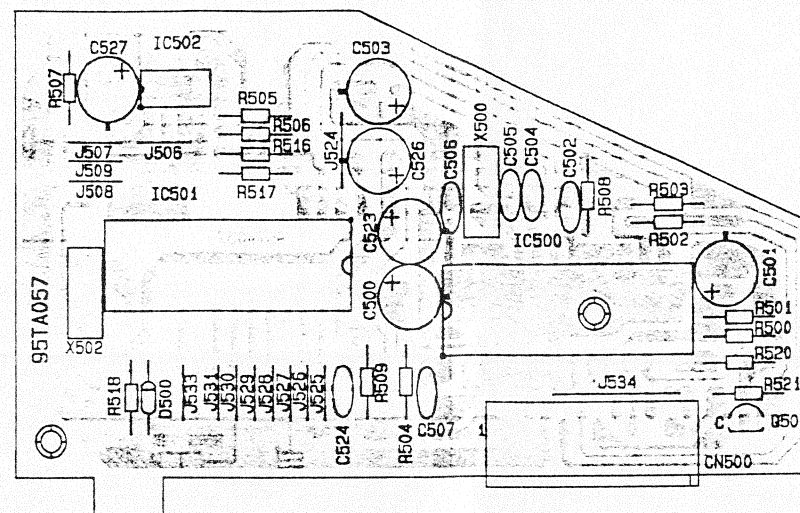
OSCILLOSCOPE



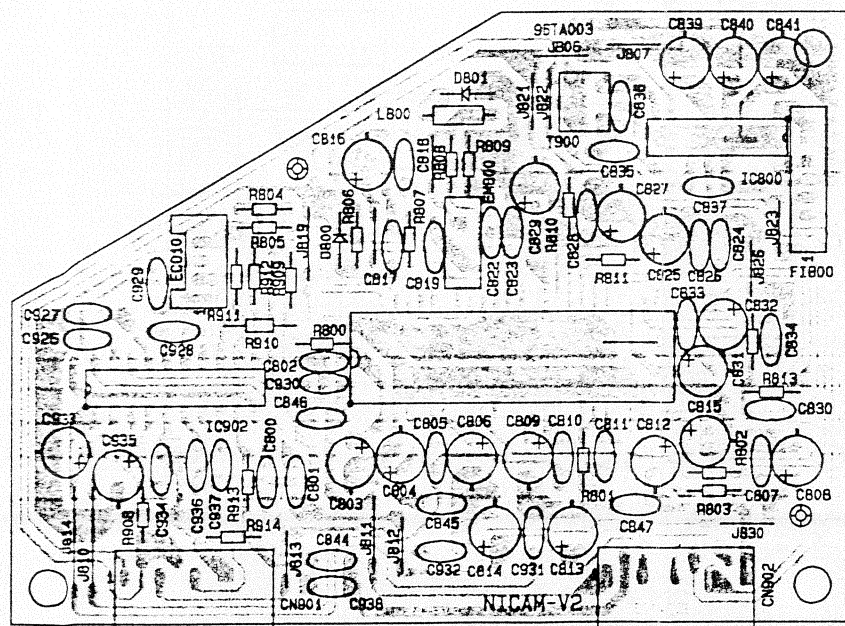
MAIN CHASSIS BOARD / CHASSISPLATE



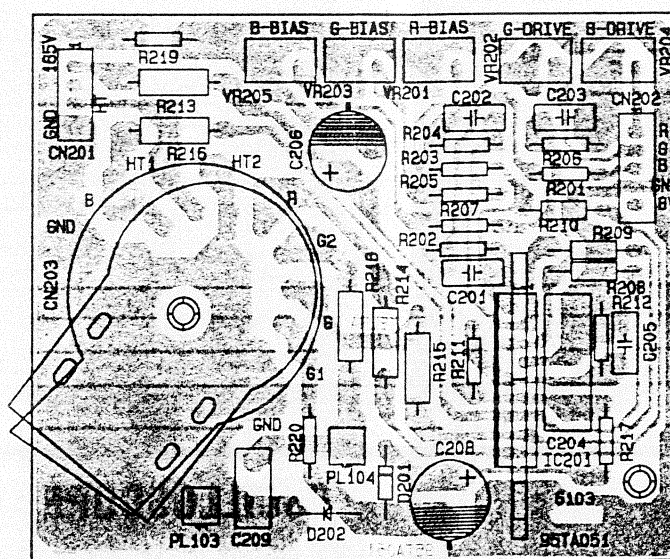
GERMAN STEREO BOARD / GERMAN STEREO BAUSTEIN



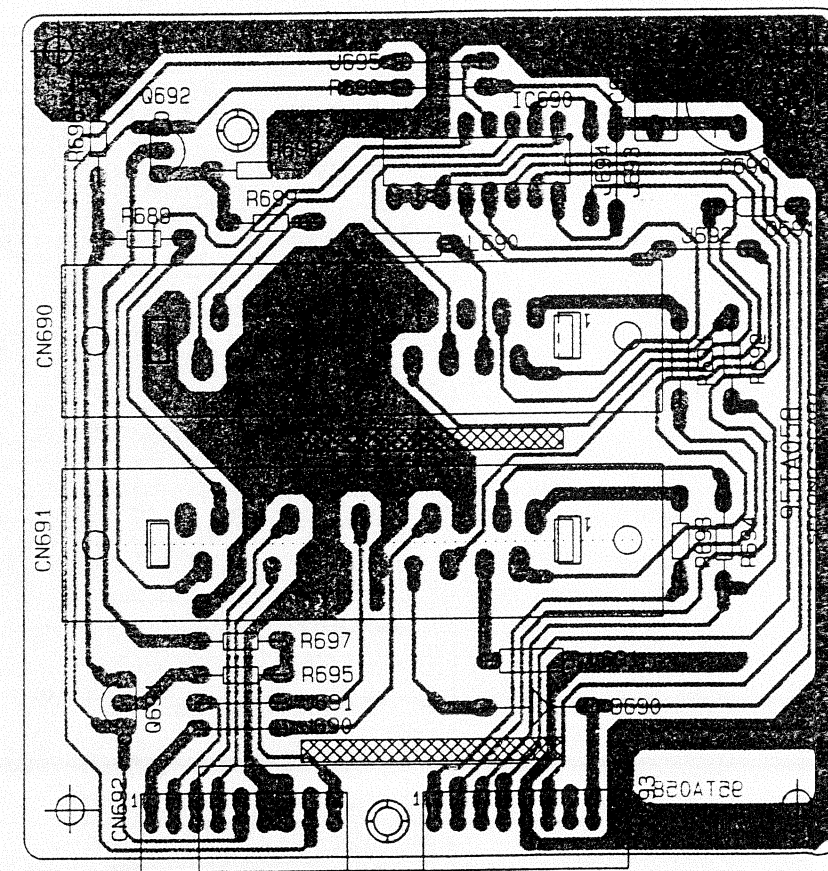
FASTEXT BOARD / FASTEXT BAUSTEIN



NICAM BOARD / NICAM BAUSTEIN



CRT BOARD / CRT BAUSTEIN



DOUBLE SCART BOARD / DOPPEL - SCART BAUSTEIN

REMOTE CONTROLLER TRANSMITTER PCB CIRCUIT DIAGRAM

CO	HE	FUNCTION	MODEL	REMARKS
0	00	0		
1	01	1		
2	02	2		
3	03	3		
4	04	4		
5	05	5		
6	06	6		
7	07	7		
8	08	8		
9	09	9		
10	0A	10		
11	0B	11		
12	0C	12		
13	0D	13		
14	0E	14		
15	0F	15		
16	10	16		
17	11	17		
18	12	18		
19	13	19		
20	14	20		
21	15	21		
22	16	22		
23	17	23		
24	18	24		
25	19	25		
26	1A	26		
27	1B	27		
28	1C	28		
29	1D	29		
30	1E	30		
31	1F	31		
32	20	32		
33	21	33		
34	22	34		
35	23	35		
36	24	36		
37	25	37		
38	26	38		
39	27	39		
40	28	40		
41	29	41		
42	2A	42		
43	2B	43		
44	2C	44		
45	2D	45		
46	2E	46		
47	2F	47		
48	30	48		
49	31	49		
50	32	50		
51	33	51		
52	34	52		
53	35	53		
54	36	54		
55	37	55		
56	38	56		
57	39	57		
58	3A	58		
59	3B	59		
60	3C	60		
61	3D	61		
62	3E	62		
63	3F	63		

